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 Illinois  
Environmental  
Protection Agency

Division of Public Water Supplies  
2200 Churchill Road  
Springfield, Illinois 62706

# Groundwater Quality Protection Program

ISLAND LAKE WATER CO.  
FACILITY NUMBER 0975080  
WELL SITE SURVEY  
REPORT

Division of Public Water Supplies



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GROUNDWATER QUALITY PROTECTION PROGRAM:

ISLAND LAKE WATER CO.  
FACILITY NUMBER 0975080  
WELL SITE SURVEY  
REPORT

Prepared by:

Division of Public Water Supplies

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## INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

## FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

Island Lake Water Co. obtains its water from three drift wells. A fourth well, finished in bedrock, was drilled but is not used due to a high hydrogen sulfide content. The wells provide an average of 255,000 gallons per day to 750 services. See Table I for a description of each well. The surficial geologic susceptibility rating for all four wells is A2. The aquifer is overlain by sand and gravel sediments with moderate to high permeability. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility Wells Report (Appendix ).

Table I

	Minimum Setback (ft.)	Maximum Setback (ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/ft.)	Treatment	Aquifer	Well Depth (ft.)	Well Logs Available
Well #1 (20280)	400	No	A	280 0.403		Chl., Fl., polyphos	Sand and gravel	116	Yes
Well #2 (20281)	400	No	A	200 0.288		Chl., Fl., polyphos	Sand and gravel	109	Yes
Well #3 (20282)	400	No	A	65 0.095		Chl., Fl., polyphos	Sand and gravel	122	Yes
Well #4 (00544)	400	No	I			none	Deep bedrock	1233	Yes

I - Inactive

A - Active



## GROUNDWATER SAMPLING AND MONITORING HISTORY

Island Lake Water Co. Wells #2 and #3 were sampled on July 16, 1985 as part of a Statewide Groundwater Monitoring Program. The samples were analyzed for inorganic chemicals (IOC) and volatile organic/aromatic compounds (VOC/VOA). In addition, Well #3 was sampled for synthetic organic pesticides (SOC).

VOC/VOA analyses did not detect quantifiable levels of any organic compounds. SOC analyses did not detect any pesticides/herbicides. IOC analyses indicate that parameters are consistent with other sand and gravel aquifers in Illinois (Appendix C).

## WELL SITE SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes, and possible problem sites to your water supply wells. The location of potential sources, routes, possible problem sites, water wells minimum setback zones and the 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production). The Agency 5-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

### Survey Results and Findings

The Island Lake well site survey was conducted on October 30, 1989 by Fred Martinez from the Agency's Elgin Regional Office. The following describes the results and findings for the Island Lake Water Co. public water wells.

#### Island Lake Well #1 (IEPA #20280)

The survey area is urban. The area is a mixture of residential and commercial. There are five possible problem sites within 1,500 feet of well #1. They are Sharp Auto Body (map code 1) 1,250 ft NW, Colonial Auto Repair (map code 2), 1,140 ft NW, MHI Construction (map code 3) 900 ft SSW, Mobile (map code 4) 600 ft SE and Island Lake Cleaners (map code 5) 900 ft SE.

#### Island Lake Well #2 (IEPA #20281)

The survey area is urban. The area is a mixture of residential and commercial. There were no potential sources of contamination observed within 1,500 feet of Well #2.



### Island Lake Well #3 (IEPA #20282)

The survey area is urban. The area is a mixture of residential and commercial. There were no potential sources of contamination observed within 1,500 feet of Well #3.

### Island Lake Well #4 (IEPA #00544)

The survey area is urban. The area is a mixture of residential and commercial. There are five possible problem sites within 1,500 feet of Well #4. They are Sharp Auto Body (map code 1) 820 ft NW, Colonial Auto Repair (map code 2) 580 ft NW, MHI Construction (map code 3) 600 ft S, Mobil (map code 4) 950 ft SE and Island Lake Cleaners (map code 5) 1,100 ft SE.

### SUMMARY

The well site survey conducted indicates that there are potential sources/sites that could pose a hazard to groundwater utilized by the Island Lake Water Co. public water wells.

The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the controls would then be assumed by local officials through adoption of a maximum setback zone ordinance.

### RECOMMENDATIONS

The Agency strongly urges Island Lake Water Co. to consider establishing maximum setback zones for its wells. The Agency has prepared a "Maximum Setback Zone Workbook" which provides detailed case studies of how to establish a maximum setback zone. Technical assistance is available from the Agency and the Illinois State Water Survey.

In addition, the Agency recommends that the Water Co. consider proper abandonment of Well #4, if it is of no further use. Inactive wells which are improperly abandoned may be considered potential routes for contamination under the Illinois Groundwater Protection Act.



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## TECHNICAL APPENDICES















APPENDIX B  
Aerial Photographic Map

1  
2  
3

BURNETT RD

FERN DR

ROBERTS RD

GE AVE



ISLAND LAKE WATER CO.  
0975080  
1"=400'



APPENDIX B  
Aerial Photographic Map



ISLAND LAKE WATER CO.  
0975080  
1"=400'



APPENDIX: B1 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Island  
Lake Well #1 (IEPA #20280)

SURVEYOR: Martinez  
SURVEY DATE: 10/30/89

ADDRESS:  
Island Lake Water Co.  
120 S. LaSalle Street  
Chicago, IL 60603

AGENCY WELL NO: 20280  
WELL NAME & DESC.: Well 1  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0975080-Island Lake Water Co.  
FAC. PHONE NUMBER: 312/526-7204  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
44N, 9E, 21, 8B  
DISTANCE FROM CORNER: 1130N, 190E  
QUAD SHEET CODE & NAME: 8C-Wauconda  
MIN. SETBACK: 400 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2-moderate to high permeability  
sand and gravel sediments  
AGE OF WELL (DATE WELL CONSTRUCTION): 1940  
WELL DEPTH: 116 ft.  
CASEMENT DEPTH: 92 ft.  
AQUIFER CODE: 0101-sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): no  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The  
area is a mixture of residential and commercial.  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:  
John Dunn-Island Lake Water Co., 120 S. LaSalle Street, Chicago, IL 60603.  
312/526-7204, Manager.



APPENDIX: B1 INVENTORY AND SYNOPSIS OF UNITS Island Lake Well #1 (IEPA #20280)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 20280-01

NAME & ADDRESS OF UNIT OWNER: Sharp Auto Body, Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1250 ft NW

---

WELL NO. - MAP CODE - CLASSF\*: 20280-02

NAME & ADDRESS OF UNIT OWNER: Colonial Auto Repair, Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1140 ft NW

---

WELL NO. - MAP CODE - CLASSF\*: 20280-03-OX

NAME & ADDRESS OF UNIT OWNER: MHI Construction, Roberts Rd, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: construction company

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 900 ft SSW

---

WELL NO. - MAP CODE - CLASSF\*: 20280-04-OS

NAME & ADDRESS OF UNIT OWNER: Mobil Oil Co., Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage in excess of 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 600 ft SE

---

WELL NO. - MAP CODE - CLASSF\*: 20280-05-OX

NAME & ADDRESS OF UNIT OWNER: Island Lake Cleaners, Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: dry cleaning

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 900 ft SE

---



A drillers log of Well No. 1 follows:

<i>Strata</i>	<i>Thickness (ft)</i>	<i>Depth (ft)</i>
Yellow stoney gravel	40	40
Dirty gravel and sand	51	91
Gravel and sand	25	116







APPENDIX: B2 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Island  
Lake Well #2 (IEPA #20281)

SURVEYOR: Martinez  
SURVEY DATE: 10/30/89

ADDRESS:  
Island Lake Water Co.  
120 S. LaSalle Street  
Chicago, IL 60603

AGENCY WELL NO: 20281  
WELL NAME & DESC.: Well 2  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0975080-Island Lake Water Co.  
FAC. PHONE NUMBER: 312/526-7204  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
44N, 9E, 21, 7F  
DISTANCE FROM CORNER: 1385S, 1255E  
QUAD SHEET CODE & NAME: 8C-Wauconda  
MIN. SETBACK: 400 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2-moderate to high permeability  
sand and gravel sediments  
AGE OF WELL (DATE WELL CONSTRUCTION): 1945  
WELL DEPTH: 95 ft.  
CASEMENT DEPTH: 84 ft.  
AQUIFER CODE: 0101-sand and gravel aquifer  
MULTIPLE AQUIFER (Y, N): no  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The  
area is a mixture of residential and commercial.  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:  
John Dunn-Island Lake Water Co., 120 S. LaSalle Street, Chicago, IL 60603.  
312/526-7204, Manager.



APPENDIX: B2 INVENTORY AND SYNOPSIS OF UNITS Island Lake Well #2 (IEPA #20281)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 20281

NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS: no visible sources of contamination

PRE OR POST (Y,N):

DISTANCE AND DIRECTION:

---



A drillers log of Well No. 2 follows:

	<i>Strata</i>	<i>Thickness</i>	<i>Depth</i>
		( <i>ft</i> )	( <i>ft</i> )
Gravel		36	36
Sand		48	84
Gravel		11	95







APPENDIX: B3 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Island  
Lake Well #3 (IEPA #20282)

SURVEYOR: Martinez  
SURVEY DATE: 10/30/89

ADDRESS:  
Island Lake Water Co.  
120 S. LaSalle Street  
Chicago, IL 60603

AGENCY WELL NO: 20282  
WELL NAME & DESC.: Well 3  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0975080-Island Lake Water Co.  
FAC. PHONE NUMBER: 312/526-7204

LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
44N, 9E, 20, 1D  
DISTANCE FROM CORNER: 2600N, 450W  
QUAD SHEET CODE & NAME: 8C-Wauconda  
MIN. SETBACK: 400 ft.  
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2-moderate to high permeability  
sand and gravel sediments

AGE OF WELL (DATE WELL CONSTRUCTION): 1940

WELL DEPTH: 122 ft.

CASEMENT DEPTH: 112 ft.

AQUIFER CODE: 0101-sand and gravel aquifer

MULTIPLE AQUIFER (Y, N): no

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The  
area is a mixture of residential and commercial.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

John Dunn-Island Lake Water Co., 120 S. LaSalle Street, Chicago, IL 60603.  
312/526-7204, Manager.



APPENDIX: B3 INVENTORY AND SYNOPSIS OF UNITS Island Lake Well #3 (IEPA #20282)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 20282

NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS: no visible sources of contamination

PRE OR POST (Y.N):

DISTANCE AND DIRECTION:

---



A correlated drillers log of Well No. 3 furnished by the State Geological Survey follows:

<i>Strata</i>	<i>Thickness (ft)</i>	<i>Depth (ft)</i>
PLEISTOCENE SYSTEM		
Yellow stony gravel	20	20
Stony gravel and sand	67	87
Stone, gravel, and sand	68	155
Red clay	15	170
SILURIAN SYSTEM		
Niagaran Series		
Rock	20	190







APPENDIX: B4 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Island  
Lake Well #4 (IEPA #00544)

SURVEYOR: Martinez  
SURVEY DATE: 10/30/89

ADDRESS:  
Island Lake Water Co.  
120 S. LaSalle Street  
Chicago, IL 60603

AGENCY WELL NO: 00544  
WELL NAME & DESC.: Well 4  
TREATMENT APPLICATION POINT: 01  
FACILITY NO. & NAME: 0975080-Island Lake Water Co.  
FAC. PHONE NUMBER: 312/526-7204  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT:  
44N, 9E, 20, 1B  
DISTANCE FROM CORNER: 900N, 450W  
QUAD SHEET CODE & NAME: 8C-Wauconda  
MIN. SETBACK: 400 ft.  
MAX. SETBACK:  
SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2-moderate to high permeability  
sand and gravel sediments  
AGE OF WELL (DATE WELL CONSTRUCTION): 1957  
WELL DEPTH: 1233 ft.  
CASEMENT DEPTH: unknown  
AQUIFER CODE: 5687-deep bedrock aquifer  
MULTIPLE AQUIFER (Y, N): yes  
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The  
area is a mixture of residential and commercial.  
INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:  
John Dunn-Island Lake Water Co., 120 S. LaSalle Street, Chicago, IL 60603.  
312/526-7204, Manager.



APPENDIX: B4 INVENTORY AND SYNOPSIS OF UNITS Island Lake Well #4 (IEPA #00544)

---

Classification (CLASSF\*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY  
PS = POTENTIAL SECONDARY  
RI = POTENTIAL ROUTE  
CC = CERTIFIED  
XI = UNKNOWN  
CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY  
OS = POTENTIAL SECONDARY  
OR = POTENTIAL ROUTE  
CC = CERTIFIED  
OX = UNKNOWN  
CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSF\*: 00544-01-0X

NAME & ADDRESS OF UNIT OWNER: Sharp Auto Body, Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 820 ft NW

---

WELL NO. - MAP CODE - CLASSF\*: 00544-02-0X

NAME & ADDRESS OF UNIT OWNER: Colonial Auto Repair, Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 580 ft NW

---

WELL NO. - MAP CODE - CLASSF\*: 00544-03-0X

NAME & ADDRESS OF UNIT OWNER: MHI Construction, Roberts Rd, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: construction company

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 600 ft S

---

WELL NO. - MAP CODE - CLASSF\*: 00544-04-0S

NAME & ADDRESS OF UNIT OWNER: Mobil Oil Co., Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage in excess of 500 gallons

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 950 ft SE

---

WELL NO. - MAP CODE - CLASSF\*: 00544-05

NAME & ADDRESS OF UNIT OWNER: Island Lake Cleaners, Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: dry cleaning

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1100 ft SE

---



A correlated drillers log of Well No. 4 furnished by the State Geological Survey follows:

<i>Strata</i>	<i>Thickness (ft)</i>	<i>Depth (ft)</i>
<b>QUATERNARY SYSTEM</b>		
Pleistocene Series		
"Glacial drift"	175	175
<b>SILURIAN SYSTEM</b>		
"Niagaran-Alexandrian"	185	360
<b>ORDOVICIAN SYSTEM</b>		
Maquoketa Group		
"Maquoketa"	105	465
Galena-Platteville Group		
"Platteville"	275	740
Glenwood-St. Peter Sandstone		
"Glenwood shale" (includes some of		
St. Peter Sandstone)	160	900
"St. Peter Sandstone"	100	1000
<b>CAMBRIAN SYSTEM</b>		
Franconia Formation		
"Franconian"	55	1055
Ironton-Galesville Sandstone		
"Galesville sandstone"	178	1233





## APPENDIX C





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
FACILITY WELLS REPORT

PAGE: 9  
DATE: 06/26/91

REPORT: PWGWP053  
MODULE: PWGWM027

FACILITY: 0975080 ISLAND LAKE WTR CMPNY

----- OWNER ----- OFFICIAL CUSTODIAN -----

MICHAEL D VICK

120 S LASALLE ST

CHICAGO IL 60603

WELL: 00544 WELL 4 N OF RTE 176 BY JANET CT STATUS: INACTIVE\*  
LATITUDE: N42 16 21.0 LONGITUDE: W088 12 00.0

SUSCEPTIBILITY - LAND BURIAL: A2 SUSCEPTIBILITY - LAND SPREADING:

TWP: DEPTH(FT): SEC: PLOT:  
RNG: MINIMUM SETBACK(FT): 400\* ---

WELL: 20280 WELL 1 ON MIDWAY DR END OF JANET COURT STATUS: ACTIVE  
LATITUDE: N42 16 26.0 LONGITUDE: W088 11 55.0

SUSCEPTIBILITY - LAND BURIAL: A2 SUSCEPTIBILITY - LAND SPREADING:  
AQUIFERS: PLEISTOCENE SERIES

TWP: DEPTH(FT): SEC: PLOT:  
RNG: MINIMUM SETBACK(FT): 0400 ---

WELL: 20281 W2 EASTWAY & FOREST DR  
LATITUDE: N42 16 48.0

SUSCEPTIBILITY - LAND BURIAL: A2  
AQUIFERS: QUATERNARY SYSTEM

STATUS: ACTIVE  
LONGITUDE: W088 11 40.0

DEPTH(FT): SEC: PLOT:  
RNG: MINIMUM SETBACK(FT): 0400 ---

WELL: 20282 WELL 3 DOROTHY COURT  
LATITUDE: N42 16 40.0

SUSCEPTIBILITY - LAND BURIAL: A2  
AQUIFERS: PLEISTOCENE SERIES

STATUS: ACTIVE  
LONGITUDE: W088 11 58.0

DEPTH(FT): SEC: PLOT:  
RNG: MINIMUM SETBACK(FT): 0400 ---

SUSCEPTIBILITY CODES

LAND BURIAL: A2 = THICK, PERMEABLE SAND AND GRAVEL WITHIN 20 FT OF LAND SURFACE.

\*NOTE: INACTIVE WELLS SHOULD EITHER BE RETROFITTED FOR USE OR PROPERLY ABANDONED. INACTIVE WELLS WHICH ARE IMPROPERLY  
ABANDONED ARE CONSIDERED POTENTIAL ROUTES ACCORDING TO P.A. 85-0863.





## APPENDIX D









ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 73  
DATE: 06/26/91

REPORT: PWGWP048  
MODULE: PWGWM026

FACILITY: 0975080 ISLAND LAKE WTR CMPNY  
TAP: 02 WELL 2 CL F P04ADDED DISC TO APRES TANK  
RAW SRCE: 20281 W2 EASTWAY & FOREST DR

STATUS: A  
STATUS: A  
STATUS: A

COMM: Y TYPE WATER: G

SAMPLE NO: Z004508 LOCATION: WELL  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR  
SMPL PURP: 5-SPEC/OTHR COMMENTS:  
SMPL PROG: I-GWM INORG OBSRVATNS:

COLL DATE: 07/16/86 DELIVERED BY:  
LAB RCVD: 00/00/00 RECEIVED BY:  
LAB COMPL: 00/00/00 LAB SUPERVISOR:  
SMPL PERIOD: 07/86 FUND CODE:

ANALYSIS ID	RSLT NO	STRET NO	DESCRIPTION	UNITS	RESULT	STANDARDS			TRIGGER LEVEL
						DRINK WTR	RAW WTR		
0000001	001	00610	NITROGEN, AMMONIA TOTAL MG/L AS N		0-100 <				
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0-100 <	10-000			
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0-010 <				
0000001	004	00720	CYANIDE, TOTAL MG/L AS CN		0-010 <	0-200			
0000001	005	00916	CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		95-000				
0000001	006	00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		48-000				
0000001	007	00929	SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		11-000				
0000001	008	00937	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1-600				
0000001	009	00940	CHLORIDE, TOTAL MG/L AS CL		28-000				
0000001	010	00945	SULFATE, TOTAL MG/L AS SO4		94-000				
0000001	011	00951	FLUORIDE, TOTAL MG/L AS F		0-150	4-000			
0000001	012	00956	SILICA, TOTAL MG/L AS SiO2		15-000				
0000001	013	01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS		1-000 <	50-000			
0000001	014	01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		45-000	1000-000			
0000001	015	01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0-500 <				
0000001	016	01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		50-000 <				
0000001	017	01027	CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3-000 <	10-000			
0000001	018	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB		5-000 <	50-000			
0000001	019	01037	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		8-000				
0000001	020	01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5-000 <	5000-000			
0000001	021	01045	IRON, TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP		1054-000	1000-000*			
0000001	022	01051	LEAD, TOTAL RECOVERABLE UG/L AS PB		5-000 <	50-000			
0000001	023	01055	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		36-000	150-000			
0000001	024	01067	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5-000 <				
0000001	025	01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3-000 <	50-000			
0000001	026	01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		92-000				
0000001	027	01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP		5-000 <				
0000001	028	01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50-000 <	5000-000			
0000001	029	01105	ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP		50-000 <				
0000001	030	01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE		1-000 <	10-000			
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5-000 <				
0000001	032	70300	RESIDUE, TOTAL FILTERABLE @180 C, MG/L		499-000				
0000001	033	71900	MERCURY, TOTAL UG/L AS HG		0-050	2-000			
0000001	034	00010	WATER TEMPERATURE DEG C		12-000				
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		250-000				
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		125-000-				
0000001	037	00095	CONDUCTIVITY (EC)-LAB (UMHOS/CM @ 25 C		55-000				
0000001	038	00400	PH PH UNITS		7-400				
0000001	039	00410	ALKALINITY, TOTAL MG/L AS CaCO3		314-000				
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		50-000				



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REPORT: PWGMP048  
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FACILITY: 0975080 ISLAND LAKE WTR CHPNY

314.000

SAMPLE NO: B026166  
SHPL TYPE: RAW  
SHPL PURP: 1-ROUTINE  
SHPL PROG: I-GWM INORG OBSRVATNS:  
COLL DATE: 02/21/83  
LAB RCVD: 04/07/83  
LAB COMPL:  
SMPL PERIOD: 02/83  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

ANALYSIS		RSLT		STORET		STANDARD		TRIGGER	
ID	NO	ID	NO	NO	DESCRIPTION	UNITS	RESULT	DRINK WTR	RAW WTR
00095	CONDUCTIVITY(CEC)-LABCUMHDS/CM @ 25 C						720.000		
00403	PH LABORATORY UNITS						7.800		
00410	ALKALINITY, TOTAL MG/L AS CaCO3						375.000		
00610	NITROGEN, AMMONIA TOTAL MG/L AS N						0.490		
00630	NITRATE & NITRITE TOTAL MG/L AS N						0.100 <	10.000	
00720	CYANIDE, TOTAL MG/L AS CN						0.005 <	0.200	
00900	HARDNESS, EDTA MG/L AS CaCO3						402.000		
00916	CALCIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP						76.000		
00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP						53.500		
00929	SODIUM, TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP						12.000		
00937	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP						1.300		
00940	CHLORIDE, TOTAL MG/L AS CL						8.200		
00945	SULFATE, TOTAL MG/L AS SO4						41.000		
00951	FLUORIDE, TOTAL MG/L AS F						0.410	4.000	
00956	SILICA, TOTAL MG/L AS SiO2						29.000		
01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS						1.000 <	50.000	
01007	BARIUM, TOTAL RECOVERABLE UG/L AS Ba ANAL BY ICP						72.000	1000.000	
01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP						0.500		
01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP						70.000		
01027	CADMIUM, TOTAL RECOVERABLE UG/L AS Cd ANAL BY ICB						3.000 <	10.000	
01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS Cr ANAL BY ICB						5.000 <	50.000	
01037	COBALT, TOTAL RECOVERABLE UG/L AS Co ANAL BY ICP						5.000 <		
01042	COPPER, TOTAL RECOVERABLE UG/L AS Cu ANAL BY ICP						3.000 <	5000.000	
01045	IRON, TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP						1600.000	1000.000*	
01051	LEAD, TOTAL RECOVERABLE UG/L AS Pb						6.000	50.000	
01055	MANGANESE, TOTAL RECOVERABLE UG/L AS Mn ANAL BY ICP						22.000	150.000	
01067	NICKEL, TOTAL RECOVERABLE UG/L AS Ni ANAL BY ICP						3.000 <		
01077	SILVER, TOTAL RECOVERABLE UG/L AS Ag ANAL BY ICP						5.000 <	50.000	
01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS Sr ANAL BY ICP						494.000		
01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP						4.000 <		
01092	ZINC, TOTAL RECOVERABLE UG/L AS Zn ANAL BY ICP						5.000	5000.000	
01147	SELENIUM, TOTAL RECOVERABLE UG/L AS Se						1.000 <	10.000	
70300	RESIDUE, TOTAL FILTERABLE B180 C, MG/L						437.000		
70304	TOTAL DISSOLVED SOLIDS MG/L BY EC						430.000		
71900	MERCURY, TOTAL UG/L AS Hg						0.050 <	2.000	

COLL DATE: 07/16/86  
LAB RCVD: 00/00/00  
LAB COMPL: 00/00/00  
SMPL PERIOD: 07/86  
DELIVERED BY:  
RECEIVED BY:  
LAB SUPERVISOR:  
FUND CODE:

SAMPLE NO: Z004507  
SHPL TYPE: RAW  
SHPL PURP: 5-SPEC/OTHR  
SHPL PROG: V-VOC  
LOCATION: WELL  
COLLECTOR: IEPA SMPL COLLECTOR  
COMMENTS:  
OBSRVATNS:



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FACILITY: 0975080 ISLAND LAKE WTR CMPNY

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ANALYSIS ID	RSLT NO	STREET		NO	DESCRIPTION	UNITS	RESULT	STANDARDS		RAW WTR	TRIGGER LEVEL
		---	---					DRINK WTR	---		
0000001	001	32101	BROMODICHLOROMETHANE	UG/L	CG/MS		1.000				
0000001	002	32102	CARBON TETRACHLORIDE	UG/L	CG/MS		1.000	5.000			
0000001	003	32103	1,2-DICHLOROETHANE	UG/L			1.000	5.000			
0000001	004	32104	BROMOFORM	UG/L	CG/MS		1.000				
0000001	005	32105	DIBROMOCHLOROMETHANE	UG/L	GC/MS		1.000				
0000001	006	32106	CHLOROFORM	UG/L	GC/MS		1.000				
0000001	007	34010	TOLUENE	UG/L			1.000	5.000			
0000001	008	34030	BENZENE	UG/L			1.000				
0000001	009	34301	CHLOROBENZENE	UG/L			1.000				
0000001	010	34371	ETHYLBENZENE	UG/L			1.000				
0000001	011	34423	METHYLENE CHLORIDE	UG/L			1.000				
0000001	012	34475	TETRACHLOROETHYLENE	UG/L	GC/MS		1.000				
0000001	013	34496	1,1-DICHLOROETHANE	UG/L	GC/MS		1.000				
0000001	014	34501	1,1-DICHLOROETHYLENE	UG/L	GC/MS		1.000	7.000			
0000001	015	34506	1,1,1-TRICHLOROETHANE	UG/L	GC/MS		1.000	200.000			
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	GC/MS		1.000				
0000001	017	39180	TRICHLOROETHYLENE	UG/L			1.000	5.000			
0000001	018	00010	WATER TEMPERATURE	DEG C			12.000				
0000001	019	00059	FLOW (PUMPING) RATE	GAL/MIN			250.000				
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL	(EH) MILLIVOLTS			125.000				
0000001	021	00095	CONDUCTIVITY	(EC)-LAB(CUMHOS/CM @ 25 C			55.000				
0000001	022	00400	PH	PH UNITS			7.400				
0000001	023	00410	ALKALINITY, TOTAL	MG/L AS CaCO3			314.000				
0000001	024	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING	MIN			50.000				
0000001	025	90410					314.000				

FACILITY: 0975080 ISLAND LAKE WTR CMPNY  
TAP: 03 WELL 3 CL F P04ADDED DISC TO A PRESS TNK  
RAW SRCE: 20282 WELL 3 DOROTHY COURT

STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G

SAMPLE NO: Z004479 LOCATION: WELL  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR  
SMPL PURP: 5-SPEC/OTHR COMMENTS:  
SMPL PROG: B-GWM PEST OBSRVATNS:

COLL DATE: 07/16/86 DELIVERED BY:  
LAB RCVD: 00/00/00 RECEIVED BY:  
LAB COMPL: 00/00/00 LAB SUPERVISOR:  
SMPL PERIOD: 07/86 FUND CODE:

ANALYSIS ID	RSLT NO	STREET		NO	DESCRIPTION	UNITS	RESULT	STANDARDS		RAW WTR	TRIGGER LEVEL
		---	---					DRINK WTR	---		
0000001	001	39023	PHOSPHATE	UG/L			0.050				
0000001	002	39300	P,P'-DDT	UG/L			0.010				
0000001	003	39305	O,P'-DDT	UG/L			0.010				
0000001	004	39310	P,P'-DDD	UG/L			0.010				
0000001	005	39315	O,P'-DDD	UG/L			0.010				
0000001	006	39320	P,P'-DDE	UG/L			0.010				
0000001	007	39327	O,P'-DDE	UG/L			0.010				
0000001	008	39330	ALDRIN	UG/L			0.010	1.000			
0000001	009	39340	LINDANE	UG/L			0.010	4.000			







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FACILITY: 0975080 ISLAND LAKE WTR CHPNY

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0000001	015	01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500	<
0000001	016	01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	90.000	
0000001	017	01027	CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	3.000	<
0000001	018	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB	5.000	<
0000001	019	01037	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	<
0000001	020	01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000	<
0000001	021	01045	IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP	1396.000	
0000001	022	01051	LEAD, TOTAL RECOVERABLE UG/L AS PB	5.000	<
0000001	023	01055	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	28.000	
0000001	024	01067	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000	<
0000001	025	01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000	<
0000001	026	01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	477.000	
0000001	027	01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	5.000	<
0000001	028	01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000	<
0000001	029	01105	ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP	50.000	<
0000001	030	01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE	1.000	<
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000	<
0000001	032	70300	RESIDUE, TOTAL FILTERABLE @180 C, MG/L	543.000	
0000001	033	71900	MERCURY, TOTAL UG/L AS HG	0.110	
0000001	034	00010	WATER TEMPERATURE DEG C	13.500	
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN	50.000	
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	157.000	-
0000001	037	00095	CONDUCTIVITY (EC)-LAB (UMHOS/CM @ 25 C	765.000	
0000001	038	00400	PH PH UNITS	7.100	
0000001	039	00410	ALKALINITY, TOTAL MG/L AS CaCO3	765.000	
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	90.000	
0000001	041	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	116.000	
0000001	042	90410		370.000	

SAMPLE NO: B046069 LOCATION: WELL #3  
SMPL TYPE: RAW COLLECTOR: J DUNN  
SMPL PURP: 1-ROUTINE COMMENTS:  
SMPL PROG: I-GWA INORG OBSRVATNS:

COLL DATE: 05/19/82 DELIVERED BY:  
LAB RCVD: 06/21/82 RECEIVED BY:  
LAB COMPL: LAB SUPERVISOR:  
SMPL PERIOD: 05/82 FUND CODE:

ANALYSIS ID	RSLT NO	NO	DESCRIPTION	UNITS	RESULT	STANDARDS	DRINK WTR	RAW WTR	TRIGGER LEVEL
00095			CONDUCTIVITY (EC)-LAB (UMHOS/CM @ 25 C		820.000				
00403			PH LABORATORY UNITS		7.500				
00410			ALKALINITY, TOTAL MG/L AS CaCO3		380.000				
00610			NITROGEN, AMMONIA TOTAL MG/L AS N		0.290				
00630			NITRATE & NITRITE TOTAL MG/L AS N		0.100	<	10.000		
00720			CYANIDE, TOTAL MG/L AS CN		0.005	<	0.200		
00900			HARDNESS, EDTA MG/L AS CaCO3		429.000				
00916			CALCIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP		85.000				
00927			MAGNESIUM, TOTAL RECOVERABLE MG/L AS Ca ANAL BY ICP		53.500				
00929			SODIUM, TOTAL RECOVERABLE MG/L AS Na ANAL BY ICP		12.000				
00937			POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.400				
00940			CHLORIDE, TOTAL MG/L AS CL		35.000				
00945			SULFATE, TOTAL MG/L AS SO4		33.000				



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FACILITY: 0975080 ISLAND LAKE WTR CMPNY

00951	FLUORIDE, TOTAL MG/L AS F	0.410	4.000
00956	SILICA, TOTAL MG/L AS SiO2	28.000	
01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS	1.000	50.000
01007	BARIIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	76.000	1000.000
01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500	
01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	50.000	
01027	CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	3.000	10.000
01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB	5.000	50.000
01037	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	
01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	3.000	5000.000
01045	IRON, TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP	1600.000	1000.000*
01051	LEAD, TOTAL RECOVERABLE UG/L AS PB	5.000	50.000
01055	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	31.000	150.000
01067	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	3.000	
01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	5.000	50.000
01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	405.000	
01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	4.000	
01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	52.000	5000.000
01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE	1.000	10.000
70300	RESIDUE, TOTAL FILTERABLE 2180 C, MG/L	422.000	
70304	TOTAL DISSOLVED SOLIDS MG/L BY EC	490.000	
71900	MERCURY, TOTAL UG/L AS HG	0.050	2.000

SAMPLE NO: Z004477 LOCATION: WELL  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR  
SMPL PURP: 5-SPEC/OTHR COMMENTS:  
SMPL PROG: V-VOC OBSRVATNS:

COLL DATE: 10/01/85 DELIVERED BY:  
LAB RCVD: 00/00/00 RECEIVED BY:  
LAB COMPL: 00/00/00 LAB SUPERVISOR:  
SMPL PERIOD: 10/85 FUND CODE:

ANALYSIS RSLT NO NO NO DESCRIPTION

UNITS RESULT DRINK WTR RAW WTR TRIGGER LEVEL

0000001	001	32101	BROMOCHLOROMETHANE UG/L CG/MS	1.000	<	
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS	1.000	<	5.000
0000001	003	32103	1,2-DICHLOROETHANE UG/L	1.000	<	5.000
0000001	004	32104	BROMOFORM UG/L CG/MS	1.000	<	
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	1.000	<	
0000001	006	32106	CHLOROFORM UG/L GC/MS	1.000	<	
0000001	007	34010	TOLUENE UG/L	1.000	<	5.000
0000001	008	34030	BENZENE UG/L	1.000	<	
0000001	009	34301	CHLOROBENZENE UG/L	1.000	<	
0000001	010	34371	ETHYLBENZENE UG/L	1.000	<	
0000001	011	34423	METHYLENE CHLORIDE UG/L	1.000	<	
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS	1.000	<	
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS	1.000	<	
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	1.000	<	
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	1.000	<	7.000
0000001	016	39180	TRICHLOROETHYLENE UG/L	1.000	<	200.000
0000001	017	00010	WATER TEMPERATURE DEG C	13.500		5.000
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN	50.000		
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	157.000-		



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0000001	020	00095	CONDUCTIVITY(CE)-LAB(CUMHOS/CM @ 25 C	765.000
0000001	021	00400	PH PH UNITS	7.100
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CaCO3	765.000
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	90.000
0000001	024	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	116.000
0000001	025	90410		370.000







UNIVERSITY OF ILLINOIS-URBANA



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